1. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-4x-7}{7} - \frac{3x-5}{4} = \frac{-9x+8}{5}$$

A. $x \in [2.82, 5.82]$

B. $x \in [19.9, 22.9]$

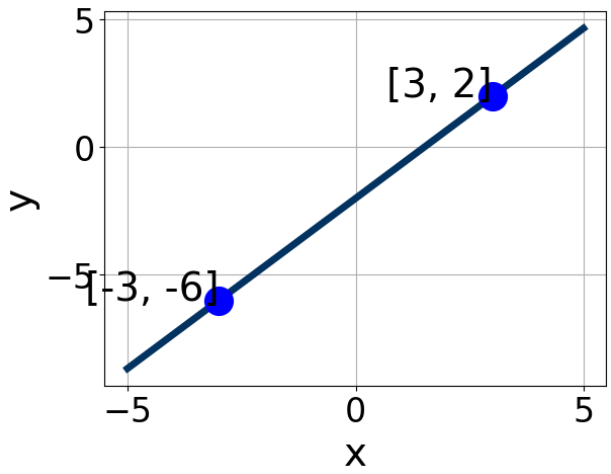
C. $x \in [-0.32, 2.68]$

D. $x \in [7.04, 13.04]$

E. There are no real solutions.

---

2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-3.2, -0.6]$, $B \in [-0.47, 2.53]$, and $C \in [-2.6, -1.5]$

B. $A \in [3.6, 4.2]$, $B \in [-4.11, -1.78]$, and $C \in [5.4, 7.9]$

C. $A \in [-3.2, -0.6]$, $B \in [-1.64, 0.98]$, and $C \in [1.9, 4]$

D. $A \in [-4.8, -3]$, $B \in [2.28, 3.26]$, and $C \in [-9.4, -4.7]$

E. $A \in [3.6, 4.2]$, $B \in [2.28, 3.26]$, and $C \in [-9.4, -4.7]$

---

3. Find the equation of the line described below. Write the linear equation

in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $6x - 7y = 6$ and passing through the point $(7, -2)$.

A. $m \in [-0.91, -0.66]$ $b \in [2, 6.5]$

B. $m \in [-1.52, -1.16]$ $b \in [2, 6.5]$

C. $m \in [-1.52, -1.16]$ $b \in [-9.4, -7.3]$

D. $m \in [1.14, 1.33]$ $b \in [-10.2, -9.8]$

E. $m \in [-1.52, -1.16]$ $b \in [-7.6, -5.5]$

---

4. Solve the equation below. Then, choose the interval that contains the solution.

$$-11(-8x + 10) = -6(-13x + 17)$$

A. $x \in [20.5, 21.5]$

B. $x \in [0.2, 1]$

C. $x \in [-22.5, -20.4]$

D. $x \in [1.1, 2.2]$

E. There are no real solutions.

---

5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $7x - 6y = 12$ and passing through the point $(2, -9)$.

A. $m \in [0.76, 1.05]$ $b \in [-11.78, -11.17]$

B. $m \in [1.13, 1.3]$ $b \in [11.14, 11.58]$

C. $m \in [-1.45, -1.1]$ $b \in [-7.04, -6.43]$

D. $m \in [1.13, 1.3]$ $b \in [-11.01, -10.53]$

E. $m \in [1.13, 1.3]$ $b \in [-11.78, -11.17]$

---

6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x-8}{5} - \frac{5x+4}{7} = \frac{4x-7}{8}$$

A. $x \in [-1.08, 0.3]$

B. $x \in [0.51, 0.88]$

C. $x \in [26.71, 27.58]$

D. $x \in [6.5, 7.26]$

E. There are no real solutions.

---

7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-9, -8) \text{ and } (-10, 3)$$

A. $m \in [-13, -7]$ $b \in [107, 110]$

B. $m \in [5, 13]$ $b \in [110, 116]$

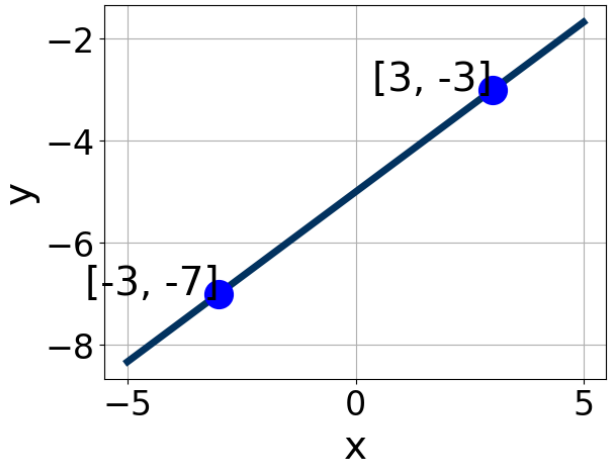
C. $m \in [-13, -7]$ $b \in [13, 19]$

D. $m \in [-13, -7]$ $b \in [-113, -106]$

E. $m \in [-13, -7]$ $b \in [0, 4]$

---

8. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.9, -0.3]$, $B \in [-1.86, -0.87]$, and $C \in [3, 12]$

B. $A \in [-0.9, -0.3]$, $B \in [0.8, 2.46]$, and $C \in [-11, -4]$

C. $A \in [0.5, 2.3]$, $B \in [1.88, 3.18]$, and $C \in [-20, -12]$

D. $A \in [-5.1, -1.8]$, $B \in [1.88, 3.18]$, and $C \in [-20, -12]$

E. $A \in [0.5, 2.3]$, $B \in [-3.74, -2.96]$, and $C \in [12, 16]$

---

9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-7, -10) \text{ and } (4, -5)$$

A. $m \in [-1.05, -0.36]$ $b \in [-3.31, -3.02]$

B. $m \in [0.14, 0.87]$ $b \in [6.13, 6.98]$

C. $m \in [0.14, 0.87]$ $b \in [-9.15, -8.92]$

D. $m \in [0.14, 0.87]$ $b \in [-6.97, -6.66]$

E. $m \in [0.14, 0.87]$ $b \in [-3.08, -2.79]$

---

10. Solve the equation below. Then, choose the interval that contains the solution.

$$-17(-4x - 5) = -16(-12x + 19)$$

A. $x \in [-2.58, -1.04]$

B. $x \in [0.12, 1.3]$

C. $x \in [0.92, 2.31]$

D. $x \in [2.37, 3.57]$

E. There are no real solutions.
